In the Specification:

Page 1, between lines 1 and 2, please insert the following heading:

BACKGROUND OF THE INVENTION.

Page 2, between lines 3 and 4, please insert the following heading:

SUMMARY OF THE INVENTION.

Page 2, please replace the original paragraph between line 4 and line 9 with the following amended paragraph:

The object of the present invention is a method with which the angular precision in angle sensors, especially in angle measurements at high temperatures, can be improved in a simple way without having to make overly stringent demands in terms of operating tolerance ranges.

Page 2, between line 9 and 10, please insert the following paragraph:

According to the invention the method for calibrating an offset of an angle sensor, which measures an angle based on a sine signal assigned to the angle and a cosine signal assigned to the angle, comprises the following steps:

a) determining the sine signal and the cosine signal for at least three different angles to obtain at least three sine and cosine value pairs, each pair containing one sine signal value and one cosine signal value;

b) displaying the at least three value pairs in an at least two-dimensional coordinate system that represents a sine signal-cosine signal plane; and

c) determining a point, representing the offset to be calibrated, in the

coordinate system, in relation to which point the at least three value pairs are located on an arc.

Page 2, please replace the original paragraph running from lines 10 to 21 with the following amended paragraph:

This object is attained by the above-described method according to the invention. By means of the method of the invention, the offset of an angle sensor can be calculated and compensated for in a simple way during operation. Compared with conventional versions, this makes it possible to enhance the angular precision, and in particular satisfactory angle measurements can be made at high temperatures, such as in the engine compartment of motor vehicles, The invention makes it possible to increase the ranges of production variation or operating tolerances for the mechanical, magnetic, optical or micromechanical components of the sensors used.

Page 2, lines 23 and 24, please delete the text at these lines in their entirety.

Page 3, first equation, line 1, please delete the original equation at this line in its entirety and insert between line 1 and line 2, the following equation:

$$Osin = \tfrac{1}{2}\cdot\{ [Ucos(1)-Ucos(3)] + [(Usin(2)-Usin(1))\cdot(Usin(2)+Usin(1))/(Ucos(2)-Ucos(1))] - [(Usin(3)-Usin(2))\cdot(Usin(3)+Usin(2))/(Ucos(3)-Ucos(2))] \}/\{ [(Usin(2)-Usin(1))/(Ucos(2)-Ucos(1))] - [(Usin(3)-Usin(2))/(Ucos(3)-Ucos(2))] \},$$

Page 3, second equation, line 4, please delete the original equation or line 4 in its entirety and insert the following equation between line 4 and line 5:

a7

$$Ocos = \tfrac{1}{2}\cdot\{ [Usin(1)-Usin(3)] + [(Ucos(2)-Ucos(1))\cdot(Ucos(2)+Ucos(1))/(Usin(2)-Usin(1))] - [(Ucos(3)-Ucos(2))\cdot(Ucos(3)+Ucos(2))/(Usin(3)-Usin(2))] \}/\{ [(Ucos(2)-Ucos(1))/(Usin(2)-Usin(1))] - [(Ucos(3)-Ucos(2))/(Usin(3)-Usin(2))] \},$$

Page 3, between line 11 and 12, please insert the following heading:

a8 BRIEF DESCRIPTION OF THE DRAWING.

Page 4, between lines 5 and 6, please insert the following heading:

a9 DETAILED DESCRIPTION OF THE INVENTION.

Page 6, first equation, line 12, please delete the original equation or line 12 in its entirety and insert the following equation between line 12 and 13:

a10

$$[Ocos-Ucos(1)]\cdot[Ocos-Ucos(1)]+[Osin-Usin(1)]\cdot[Osin-Usin(1)] = [Ocos-Ucos(2)]\cdot[Ocos-Ucos(2)]+[Osin-Usin(2)]\cdot[Osin-Usin(2)]$$

Page 6, second equation, line 14, please delete the original equation or line 14 in its entirety and insert the following equation between line 14 and 15:

a11

$$[Ocos-Ucos(2)]\cdot[Ocos-Ucos(2)]+[Osin-Usin(2)]\cdot[Osin-Usin(2)] = [Ocos-Ucos(3)]\cdot[Ocos-Ucos(3)]+[Osin-Usin(3)]\cdot[Osin-Usin(3)]$$

Page 7, first equation, line 1, please delete the original equation at this line in its

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